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Atmospheric Chemistry and Physics Discussions

Supplement of

Submicron aerosols at thirteen diversified sites in China: size distribution, new particle formation and corresponding contribution to cloud condensation nuclei production

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Supplementary materials

Table S1. Summary of contribution of NPF events to potential CCN at different time of day between 14:00 to 17:00 in all measurements

Type	Sites	Season	S_c=0.5 (D_p=50)				S_c=0.2 (D_p=90)			
			14:00-15:00	**15:00-16:00**	**16:00-17:00**	**Ave.**	**14:00-15:00**	**15:00-16:00**	**16:00-17:00**	**Ave.**
Urban	**GZ_u**	Autumn	27%	31%	35%	**31%**	6%	9%	12%	**9%**
	SH_u	Spring	37%	30%	31%	**33%**	7%	5%	6%	**6%**
	WX_u_win	Winter	0%	0%	0%	**0%**	0%	0%	0%	**0%**
	WX_u_sum	Summer	76%	63%	60%	**66%**	31%	23%	24%	**26%**
	JH_u	Autumn	0%	0%	0%	**0%**	0%	0%	0%	**0%**
Regional	**HS_r**	Autumn	0%	0%	0%	**0%**	0%	0%	0%	**0%**
	KP_r	Autumn	22%	33%	34%	**30%**	2%	7%	8%	**6%**
	JX_r_sum	Summer	61%	55%	56%	**57%**	25%	21%	22%	**23%**
	JX_r_win	Winter	0%	0%	0%	**0%**	0%	0%	0%	**0%**
	YF_r	Summer	25%	30%	28%	**28%**	2%	5%	7%	**5%**
Coastal	**BG**	Autumn	5%	9%	11%	**8%**	<1%	<1%	1%	**<1%**
	WL	Autumn	3%	6%	6%	**5%**	<1%	<1%	1%	**<1%**
	CD	Spring	5%	11%	14%	**10%**	<1%	<1%	1%	**<1%**
Cruise	**ES**	Spring	<1%	<1%	<1%	**<1%**	<1%	<1%	<1%	**<1%**

"0%" represent that there is no NPF event found in the measurement; "<1%" represent that there are NPF events found in the measurement, but the relative contributions of these NPF events to the total CCN concentration are smaller than 1%.